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COMMISSIONER OF THE GENERAL LAND OFFICE

from 2001 to 2003, April 21, 2003, 11:59:49; search time 3199.41 seconds (without alignment).

Title:	US-10-030-306-24
Project:	1727
Sequence:	1 adjacent adjacent

score in table:  $\text{DEFINITY}_{\text{NOC}}$   
 (approx 10.0), correct 1.0

Submitted: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 419280

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Best processing: Minimum March 18  
Maximum March 190X  
Listed first 45.5

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pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the corresponding score derived by analysis of the total score is considered a success.

## SUMMARY

| Result | No. | Country |       |         | Toss |             |           | Result |
|--------|-----|---------|-------|---------|------|-------------|-----------|--------|
|        |     | Score   | Match | Length  | DR   | TR          | Score     |        |
| c      | 1   | 127     | 104.0 | 17.67   | 6    | AX07.657    | AX 127.67 |        |
|        | 2   | 614.6   | 28.8  | 10.66   | 9    | AX07.659    | AX 614.6  |        |
|        | 3   | 498     | 28.8  | 4.98    | 9    | AX07.662    | AX 498    |        |
| c      | 4   | 4       | 17.6  | 3.61    | 6    | AX07.664    | AX 4      |        |
|        | 5   | 177.6   | 18.3  | 34.27   | 6    | AX05.640    | AX 177.6  |        |
|        | 6   | 176     | 16.2  | 35.13   | 9    | AX05.6807   | AX 176    |        |
| c      | 7   | 143.1   | 8.3   | 55.11   | 2    | AX08.4178   | AX 143.1  |        |
|        | 8   | 127.6   | 7.4   | 25.44   | 1    | AX1.60418   | AX 127.6  |        |
|        | 9   | 127.6   | 7.2   | 137.645 | 2    | AX1.11557   | AX 127.6  |        |
| c      | 10  | 107.4   | 6.2   | 28.79   | 9    | AX0007.23   | AX 107.4  |        |
|        | 11  | 107.4   | 6.2   | 28.93   | 6    | AX405.21    | AX 107.4  |        |
|        | 12  | 99.2    | 5.7   | 176.287 | 10   | AX1.13447   | AX 99.2   |        |
| c      | 13  | 96      | 5.6   | 20.558  | 2    | AX1.18.99   | AX 96     |        |
|        | 14  | 90      | 5.2   | 9.1875  | 9    | AX1.12.86   | AX 90     |        |
|        | 15  | 31.2    | 4.9   | 12.316  | 2    | AX.596154   | AX 31.2   |        |
| c      | 16  | 48      | 3.9   | 7.218   | 5    | 1.68.494    | AX 48     |        |
|        | 17  | 65.8    | 3.8   | 62.649  | 2    | AX0.2255.2  | AX 65.8   |        |
|        | 18  | 64.2    | 3.7   | 4.24    | 11   | AX99.712935 | AX 64.2   |        |
| c      | 19  | 64.2    | 3.7   | 23.558  | 2    | AX1.18.99   | AX 64.2   |        |
|        | 20  | 61      | 3.6   | 7.67    | 3    | AX.62.118   | AX 61     |        |
|        | 21  | 62.2    | 3.6   | 19.41   | 6    | AX08.415.2  | AX 62.2   |        |
| c      | 22  | 62.2    | 3.6   | 166.742 | 2    | AX1.28817   | AX 62.2   |        |
|        | 23  | 61.2    | 3.5   | 13.4801 | 2    | AX09.4575   | AX 61.2   |        |
|        | 24  | 61      | 3.5   | 34.852  | 2    | AX05.5795   | AX 61     |        |
| c      | 25  | 60.2    | 3.5   | 136.776 | 2    | AX1.2.7910  | AX 60.2   |        |
|        | 26  | 60.2    | 3.5   | 51.274  | 2    | AX0.2.3454  | AX 60.2   |        |
|        | 27  | 59.6    | 3.5   | 61.150  | 2    | AX1.00.284  | AX 59.6   |        |
| c      | 28  | 59.6    | 3.5   | 165.197 | 2    | AX1.1253.8  | AX 59.6   |        |
|        | 29  | 59.6    | 3.5   | 194.292 | 2    | AX09.291    | AX 59.6   |        |
|        | 30  | 59.4    | 3.4   | 132.083 | 2    | AX1.055.36  | AX 59.4   |        |
| c      | 31  | 59.2    | 3.4   | 184.147 | 2    | AX1.2859.3  | AX 59.2   |        |
|        | 32  | 58.6    | 3.4   | 57.671  | 2    | AX1.1032.31 | AX 58.6   |        |
|        | 33  | 58.4    | 3.4   | 125.620 | 9    | AX3.29.315  | AX 58.4   |        |
| c      | 34  | 58.6    | 3.4   | 75.013  | 2    | AX09.6406   | AX 58.6   |        |
|        | 35  | 58.6    | 3.4   | 78.765  | 2    | AX0.21584   | AX 58.6   |        |
|        | 36  | 58.6    | 3.4   | 161.945 | 2    | AX0.66075   | AX 58.6   |        |
| c      | 37  | 58.6    | 3.4   | 255.51  | 2    | AX3.27.23   | AX 58.6   |        |
|        | 38  | 58.6    | 3.4   | 298.116 | 2    | AX08.756.3  | AX 58.6   |        |
|        | 39  | 58.4    | 3.4   | 64.272  | 2    | AX0.2.8019  | AX 58.4   |        |
| c      | 40  | 58.1    | 3.4   | 100.511 | 2    | AX0.010.274 | AX 58.1   |        |
|        | 41  | 58.3    | 3.4   | 141.892 | 2    | AX0.2.3197  | AX 58.3   |        |
|        | 42  | 58.2    | 3.4   | 530.35  | 2    | AX09.494.4  | AX 58.2   |        |
| c      | 43  | 58.2    | 3.4   | 627.46  | 2    | AX08.4190   | AX 58.2   |        |
|        | 44  | 58.2    | 3.4   | 64.976  | 2    | AX0.26.256  | AX 58.2   |        |
|        | 45  | 58.2    | 3.4   | 15.642  | 2    | AX1.2362.1  | AX 58.2   |        |

 $f$ [illegible]



**SOURCE**  
 Homo sapiens  
 Homo sapiens  
 PubMed, National Institutes of Health, National Library of Medicine, Mammalian Primates: Anthropini: Hominidae: Homo, Class 1 (1999)  
**REFERENCE**  
 AUTHOR: Streubert, R.  
 TITLE: Direct Submission  
 JOURNAL: Submitted (07 Dec 2001) National Institutes of Health, Mammalian Gene Collection (MGC), Genomic Resources Office, National Cancer Institute, 31 Center Drive, Room 11A04, Bethesda, MD 20892-2590, USA  
**REMARK**  
 COMMENT: NIH MGC Project ERK11447774-4 and 444-4  
 Contact: MGC help desk  
 Email: mgs-help@ncbi.nlm.nih.gov  
 Email: mgs-help@ncbi.nlm.nih.gov  
 Tissue Procurement: AACC  
 cDNA Library Preparation: Rubin Laboratory  
 cDNA Library Array: The 210-A3.0.1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.1001.1002.1003.1004.1005.1006.1007.1008.1009.1010.1011.1012.1013.1014.1015.1016.1017.1018.1019.1020.1021.1022.1023.1024.1025.1026.1027.1028.1029.1030.1031.1032.1033.1034.1035.1036.1037.1038.1039.1040.1041.1042.1043.1044.1045.1046.1047.1048.1049.1050.1051.1052.1053.1054.1055.1056.1057.1058.1059.1060.1061.1062.1063.1064.1065.1066.1067.1068.1069.1070.1071.1072.1073.1074.1075.1076.1077.1078.1079.1080.1081.1082.1083.1084.1085.1086.1087.1088.1089.1090.1091.1092.1093.1094.1095.1096.1097.1098.1099.1100.1101.1102.1103.1104.1105.1106.1107.1108.1109.1110.1111.1112.1113.1114.1115.1116.1117.1118.1119.1120.1121.1122.1123.1124.1125.1126.1127.1128.1129.1130.1131.1132.1133.1134.1135.1136.1137.1138.1139.1140.1141.1142.1143.1144.1145.1146.1147.1148.1149.1150.1151.1152.1153.1154.1155.1156.1157.1158.1159.1160.1161.1162.1163.1164.1165.1166.1167.1168.1169.1170.1171.1172.1173.1174.1175.1176.1177.1178.1179.1180.1181.1182.1183.1184.1185.1186.1187.1188.1189.1190.1191.1192.1193.1194.1195.1196.1197.1198.1199.1200.1201.1202.1203.1204.1205.1206.1207.1208.1209.1210.1211.1212.1213.1214.1215.1216.1217.1218.1219.122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| Query Match           | 10-20%            | Score 120        | 14-97    | Length 45142 |
|-----------------------|-------------------|------------------|----------|--------------|
| Best Local Similarity | 66.1%             | Prod. No. 13-273 |          |              |
| Methods               | 1.4. Conservative | 2. Muscular      | 3. Basic | 4. Maps      |
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| 243                   | 1                 | 1                | 1        | 1            |
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1 TITLE OF INVENTION: TREATMENT OF PRIMERIALS OF A MALIGNANT TUMOR
2
3 SOURCE OF SOURCE:
4
5 CORRESPONDENCE ADDRESS:
6 ADDRESSER: BURGESS, DAWSON, SUBCARE & MATHEWS, L.L.P.
7 STREET: P.O. BOX 1404
8 CITY: Alexandria
9 STATE: Virginia
10 COUNTRY: United States
11 ZIP: 22414-1404
12
13 COMPUTER READABLE FORM:
14 MEDIUM TYPE: Floppy disk
15 COMPUTER: IBM PC compatible
16 OPERATING SYSTEM: PC-DOS/MS-DOS
17 SOFTWARE: Patent in Release #1.0, Version #1.30
18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER: 03/09/144,916A
20 FILING DATE:
21 CLASSIFICATION:
22
23 PRIOR APPLICATION DATA:
24 APPLICATION NUMBER: 03/09/479,547
25 FILING DATE: 07-JUN-1995
26 APPLICATION NUMBER: FR 90/14101
27 FILING DATE: 23-OCT-1990
28
29 PRIOR APPLICATION DATA:
30 APPLICATION NUMBER: W 90/4991/00845
31 FILING DATE: 23-OCT-1991
32
33 PRIOR APPLICATION DATA:
34 APPLICATION NUMBER: 03/09/339,420
35 FILING DATE: 04-APR-1994
36
37 PRIOR APPLICATION DATA:
38 APPLICATION NUMBER: 03/09/404,576
39 FILING DATE: 14-MAR-1995
40
41 ATTORNEY/AGENT INFORMATION:
42 NAME: Taskin, Robin L.
43 REGISTRATION NUMBER: 35,010
44 ADDRESS: 525 S.E. 30TH ST. #200
45 TELECOMMUNICATION INFORMATION:
46 TELEPHONE: (703) 836-6620
47 TELEFAX: (703) 836-2021
48
49 INFORMATION FOR SEQ ID NO: 1:
50 SEQUENCE CHARACTERISTICS:
51 LENGTH: 6192 base pairs
52 TYPE: nucleic acid
53 STRANDEDNESS: single
54 TOPOLOGY: linear
55 MOLECULE TYPE: DNA (genomic)
56 FEATURE:
57 NAME/KEY: Start peptide
58 LOCATION: 50..1420
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61 LOCATION: 489..5249
62 OTHER INFORMATION: 489-5249 "The nucleotide sequence of the repeat is 489-5249"
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[illegible]





























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|----|-----------------|------------------------------------------------------|
| FT | product         | "protein required for nitroreductase activity"       |
| FT | complement      | (441042...441099)                                    |
| FT | /*tag           | s                                                    |
| FT | /*standard_name | "orf K19"                                            |
| FT | /*gene          | "ltxA"                                               |
| FT | /*product       | "protein required for nitroreductase activity"       |
| FT | complement      | (442316...442636)                                    |
| FT | /*tag           | t                                                    |
| FT | /*standard_name | "orf K20"                                            |
| FT | /*product       | "protein of unknown function"                        |
| FT | complement      | (443313...443879)                                    |
| FT | /*tag           | u                                                    |
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| FT | /*tag           | v                                                    |
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| FT | /*product       | "cytochrome b5-like protein"                         |
| FT | /*note          | "homologous to the N110 gene"                        |
| FT | complement      | (445088...445602)                                    |
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| FT | /*note          | "homologous to the ltxA gene"                        |
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| FT | /*tag           | y                                                    |
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| FT | complement      | (450441...451596)                                    |
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| FT | complement      | (452980...454494)                                    |
| FT | /*tag           | ab                                                   |
| FT | /*standard_name | "orf L5"                                             |
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| FT | complement      | (454590...456131)                                    |
| FT | /*tag           | ac                                                   |
| FT | /*standard_name | "orf L7"                                             |
| FT | /*gene          | "nifK"                                               |
| FT | /*product       | "beta subunit of FeMo protein of nitrogenase"        |
| FT | complement      | (456187...457677)                                    |
| FT | /*tag           | ad                                                   |
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| FT | /*product       | "protein involved in FeMo co-factor biosynthesis"    |
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| FT | /*tag           | ae                                                   |
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| FT | /*product       | "protein involved in FeMo co-factor biosynthesis"    |
| FT | complement      | (459097...459575)                                    |
| FT | /*tag           | af                                                   |
| FT | /*standard_name | "orf L10"                                            |
| FT | /*product       | "protein of unknown function"                        |
| FT | /*note          | "homologous to the N11X gene"                        |
| FT | complement      | (459579...460067)                                    |
| FT | /*tag           |                                                      |

[illegible]

















15588: cont'd of 1125 bp in length  
 15589: gap of unknown length  
 15590: cont'd of 1663 bp in length  
 15591: gap of unknown length  
 15592: cont'd of 1194 bp in length  
 15593: gap of unknown length  
 15594: cont'd of 1490 bp in length  
 15595: gap of unknown length  
 15596: cont'd of 1553 bp in length  
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 15598: cont'd of 1246 bp in length  
 15599: gap of unknown length  
 15600: cont'd of 1247 bp in length  
 15601: gap of unknown length  
 15602: cont'd of 1742 bp in length  
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 15610: cont'd of 1433 bp in length  
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 15635: gap of unknown length  
 15636: cont'd of 2962 bp in length

15637: cont'd of 1125 bp in length  
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 15684: gap of unknown length  
 15685: cont'd of 2962 bp in length







Seemann, J. 1999. *Plasma*: p. 101-102.

[illegible][illegible]
$$S_0 = S_{\text{min}} + \frac{\Delta S}{n} \left( \sum_{j=1}^n j \right) = S_{\text{min}} + \frac{\Delta S}{n} \cdot \frac{n(n+1)}{2}$$
[illegible]

\*NOTE: Estimated insert size may differ from sequence length (See [http://www.illumina.com/technology/sequencing\\_data.html](http://www.illumina.com/technology/sequencing_data.html))

[illegible][illegible][illegible]

★ 1. 1990年12月1日，中共中央、国务院作出《关于实行“断卡”政策的决定》，要求在全国范围内实行“断卡”政策，即停止发放新的信用卡，并对现有信用卡进行清理整顿。这一政策旨在规范信用卡市场，防范金融风险。

\*  $\gamma_{\text{eff}}$  and  $N$  but the exact values of the quantities are unknown.

\* This record will be updated with the finalized sequence.

[illegible]

\* Published by

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[illegible]

**Figure 6.** The effect of the initial concentration of the monomer ( $[M]_0$ ) on the polymerization rate at different temperatures. The reaction conditions were as follows:  $[AIBN] = 0.005 \text{ mol/L}$ ,  $[KBrO_3] = 0.005 \text{ mol/L}$ ,  $[H_2SO_4] = 0.005 \text{ mol/L}$ ,  $[NaNO_2] = 0.005 \text{ mol/L}$ ,  $[H_2O] = 10 \text{ mL}$ ,  $t_p = 180^\circ\text{C}$ .

1. *Introduction*  
 2. *Background*  
 3. *Methods*  
 4. *Results*  
 5. *Discussion*  
 6. *Conclusion*  
 7. *References*  
 8. *Appendix*  
 9. *Tables*  
 10. *Figures*  
 11. *Supplementary Materials*  
 12. *Abbreviations*  
 13. *Conflicts of Interest*  
 14. *Acknowledgments*  
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1. *Pharmaceutical Innovation and the Role of the State*  
 2. *The Impact of Patent Law on Drug Development*  
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 9. *The Role of the Pharmaceutical Industry in the Future*  
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Source: *Oryza sativa* (Japanese cultivar group) (cultivar: Nipponbare); cDNA; clone:01664\_008.

ORGANISM: *Oryza sativa* (Japanese cultivar group)

REFERENCE: *Oryza sativa* (Japanese cultivar group) (cultivar: Nipponbare); cDNA; clone:01664\_008

FEATURES: *Oryza sativa* (Japanese cultivar group) (cultivar: Nipponbare); cDNA; clone:01664\_008

DEFINITION: *Oryza sativa* (Japanese cultivar group) (cultivar: Nipponbare); cDNA; clone:01664\_008

ACCESSION: AL35816.1

VERSION: AL35816.1 GI:764606

KEYWORDS: ABC transport system ATP-binding protein; ABC transport system transmembrane protein; acetyltransferase; ERF subfamily sigma factor; glark; hydrolase; integral membrane protein; lact-family regulatory protein; lipoprotein; molybdopterin converting factor; mult like protein; phosphate ABC transport system

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11690-11695, 11700-11705, 11710-11715, 11720-11725, 11730-11735, 11740-11745, 11750-11755, 11760-11765, 11770-11775, 11780-11 |  |  |















| POST-LOCAL SIMILARITY | 66.7% | Prod. No. | 66.7% | 66.7% | 66.7% |
|-----------------------|-------|-----------|-------|-------|-------|
| MATCHES               | 24    | 3         | 3     | 3     | 3     |
| 1                     | 1     | 1         | 1     | 1     | 1     |
| 2                     | 1     | 1         | 1     | 1     | 1     |
| 3                     | 1     | 1         | 1     | 1     | 1     |
| 4                     | 1     | 1         | 1     | 1     | 1     |
| 5                     | 1     | 1         | 1     | 1     | 1     |
| 6                     | 1     | 1         | 1     | 1     | 1     |
| 7                     | 1     | 1         | 1     | 1     | 1     |
| 8                     | 1     | 1         | 1     | 1     | 1     |
| 9                     | 1     | 1         | 1     | 1     | 1     |
| 10                    | 1     | 1         | 1     | 1     | 1     |
| 11                    | 1     | 1         | 1     | 1     | 1     |
| 12                    | 1     | 1         | 1     | 1     | 1     |
| 13                    | 1     | 1         | 1     | 1     | 1     |
| 14                    | 1     | 1         | 1     | 1     | 1     |
| 15                    | 1     | 1         | 1     | 1     | 1     |
| 16                    | 1     | 1         | 1     | 1     | 1     |
| 17                    | 1     | 1         | 1     | 1     | 1     |
| 18                    | 1     | 1         | 1     | 1     | 1     |
| 19                    | 1     | 1         | 1     | 1     | 1     |
| 20                    | 1     | 1         | 1     | 1     | 1     |
| 21                    | 1     | 1         | 1     | 1     | 1     |
| 22                    | 1     | 1         | 1     | 1     | 1     |
| 23                    | 1     | 1         | 1     | 1     | 1     |
| 24                    | 1     | 1         | 1     | 1     | 1     |
| 25                    | 1     | 1         | 1     | 1     | 1     |
| 26                    | 1     | 1         | 1     | 1     | 1     |
| 27                    | 1     | 1         | 1     | 1     | 1     |
| 28                    | 1     | 1         | 1     | 1     | 1     |
| 29                    | 1     | 1         | 1     | 1     | 1     |
| 30                    | 1     | 1         | 1     | 1     | 1     |
| 31                    | 1     | 1         | 1     | 1     | 1     |
| 32                    | 1     | 1         | 1     | 1     | 1     |
| 33                    | 1     | 1         | 1     | 1     | 1     |
| 34                    | 1     | 1         | 1     | 1     | 1     |
| 35                    | 1     | 1         | 1     | 1     | 1     |
| 36                    | 1     | 1         | 1     | 1     | 1     |
| 37                    | 1     | 1         | 1     | 1     | 1     |
| 38                    | 1     | 1         | 1     | 1     | 1     |
| 39                    | 1     | 1         | 1     | 1     | 1     |
| 40                    | 1     | 1         | 1     | 1     | 1     |
| 41                    | 1     | 1         | 1     | 1     | 1     |
| 42                    | 1     | 1         | 1     | 1     | 1     |
| 43                    | 1     | 1         | 1     | 1     | 1     |
| 44                    | 1     | 1         | 1     | 1     | 1     |
| 45                    | 1     | 1         | 1     | 1     | 1     |
| 46                    | 1     | 1         | 1     | 1     | 1     |
| 47                    | 1     | 1         | 1     | 1     | 1     |
| 48                    | 1     | 1         | 1     | 1     | 1     |
| 49                    | 1     | 1         | 1     | 1     | 1     |
| 50                    | 1     | 1         | 1     | 1     | 1     |
| 51                    | 1     | 1         | 1     | 1     | 1     |
| 52                    | 1     | 1         | 1     | 1     | 1     |
| 53                    | 1     | 1         | 1     | 1     | 1     |
| 54                    | 1     | 1         | 1     | 1     | 1     |
| 55                    | 1     | 1         | 1     | 1     | 1     |
| 56                    | 1     | 1         | 1     | 1     | 1     |
| 57                    | 1     | 1         | 1     | 1     | 1     |
| 58                    | 1     | 1         | 1     | 1     | 1     |
| 59                    | 1     | 1         | 1     | 1     | 1     |
| 60                    | 1     | 1         | 1     | 1     | 1     |
| 61                    | 1     | 1         | 1     | 1     | 1     |
| 62                    | 1     | 1         | 1     | 1     | 1     |
| 63                    | 1     | 1         | 1     | 1     | 1     |
| 64                    | 1     | 1         | 1     | 1     | 1     |
| 65                    | 1     | 1         | 1     | 1     | 1     |
| 66                    | 1     | 1         | 1     | 1     | 1     |
| 67                    | 1     | 1         | 1     | 1     | 1     |
| 68                    | 1     | 1         | 1     | 1     | 1     |
| 69                    | 1     | 1         | 1     | 1     | 1     |
| 70                    | 1     | 1         | 1     | 1     | 1     |
| 71                    | 1     | 1         | 1     | 1     | 1     |
| 72                    | 1     | 1         | 1     | 1     | 1     |
| 73                    | 1     | 1         | 1     | 1     | 1     |
| 74                    | 1     | 1         | 1     | 1     | 1     |
| 75                    | 1     | 1         | 1     | 1     | 1     |
| 76                    | 1     | 1         | 1     | 1     | 1     |
| 77                    | 1     | 1         | 1     | 1     | 1     |
| 78                    | 1     | 1         | 1     | 1     | 1     |
| 79                    | 1     | 1         | 1     | 1     | 1     |
| 80                    | 1     | 1         | 1     | 1     | 1     |
| 81                    | 1     | 1         | 1     | 1     | 1     |
| 82                    | 1     | 1         | 1     | 1     | 1     |
| 83                    | 1     | 1         | 1     | 1     | 1     |
| 84                    | 1     | 1         | 1     | 1     | 1     |
| 85                    | 1     | 1         | 1     | 1     | 1     |
| 86                    | 1     | 1         | 1     | 1     | 1     |
| 87                    | 1     | 1         | 1     | 1     | 1     |
| 88                    | 1     | 1         | 1     | 1     | 1     |
| 89                    | 1     | 1         | 1     | 1     | 1     |
| 90                    | 1     | 1         | 1     | 1     | 1     |
| 91                    | 1     | 1         | 1     | 1     | 1     |
| 92                    | 1     | 1         | 1     | 1     | 1     |
| 93                    | 1     | 1         | 1     |       |       |

| Genetic Markers | Accession | Source  | Size (bp) | GC (%) | Length (bp) | GC (%) |
|-----------------|-----------|---------|-----------|--------|-------------|--------|
| 16S rDNA        | AF011111  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011112  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011113  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011114  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011115  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011116  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011117  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011118  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011119  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011120  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011121  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011122  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011123  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011124  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011125  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011126  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011127  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011128  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011129  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011130  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011131  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011132  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011133  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011134  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011135  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011136  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011137  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011138  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011139  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011140  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011141  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011142  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011143  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011144  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011145  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011146  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011147  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011148  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011149  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011150  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011151  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011152  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011153  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011154  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011155  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011156  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011157  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011158  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011159  | GenBank | 1640      | 50.8   | 1640        | 50.8   |
| 23S rDNA        | AF011160  | GenBank | 2354      | 50.8   | 2354        | 50.8   |
| 5S rDNA         | AF011161  | GenBank | 120       | 50.8   | 120         | 50.8   |
| 16S rDNA        | AF011162  | GenBank |           |        |             |        |





